



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Startex Xylene

#### Recommended use of the chemical and restrictions on use

Recommended use : Solvent.

#### Manufacturer or supplier's details

**Company** : Nexeo Solutions LLC - STARTEX™  
**Address** : 3 Waterway Square Place Suite 1000  
The Woodlands, TX. 77380  
United States of America

#### Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)

Health International: 1-855-NEXEO4U (1-855-639-3648)

Transport North America: CHEMTREC (1-800-424-9300)

**Additional Information:** : Responsible Party: Product Safety Group  
E-Mail: [msds@nexeosolutions.com](mailto:msds@nexeosolutions.com)  
SDS Requests: 1-855-429-2661  
SDS Requests Fax: 1-281-500-2370  
Website: [www.nexeosolutions.com](http://www.nexeosolutions.com)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3 (Respiratory system, Central nervous system)  
- single exposure

Specific target organ toxicity : Category 2 (Auditory system)  
- repeated exposure

Aspiration hazard : Category 1

#### GHS Label element

## Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 + H332 Harmful in contact with skin or if inhaled  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

**Hazardous components**

CAS-No.	Chemical Name	Weight %
1330-20-7	Mixed xylenes	90 - 100
100-41-4	**Ethylbenzene	30 - 50
98-82-8	**Cumene	0.1 - 1

Any Concentration shown as a range is due to batch variation.

**Special Notes:** : \*\* Other substances in the product which may present a health or environmental hazard.

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.



## Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Aldehydes
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

/ national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1330-20-7	Mixed xylenes	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
100-41-4	**Ethylbenzene	STEL	150 ppm	ACGIH
		TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
98-82-8	**Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0

### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

### Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless

Odour : aromatic, Hydrocarbon-like, sweet

Odour Threshold : No data available



## Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

pH	: No data available
Freezing Point (Melting point/freezing point)	: -48 - -26.15 °C (-54 - -15.07 °F)
Boiling Point (Boiling point/boiling range)	: 137 - 139 °C (279 - 282 °F)
Flash point	: 27 °C (81 °F) Method: closed cup
Evaporation rate	: 0.8 (Butyl Acetate = 1)
Flammability (solid, gas)	: No data available
Upper explosion limit	: 7 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: 6 - 7 mmHg @ 20 - 25 °C (68 - 77 °F)
Relative vapour density	: 3.7 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0)
Relative density	: 0.86 - 0.88 @ 20 - 25 °C (68 - 77 °F) Reference substance: (water = 1)
Density	: 0.87 g/cm <sup>3</sup> @ 20 - 25 °C (68 - 77 °F)
Solubility(ies) Water solubility	: slightly soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 432 - 530 °C
Thermal decomposition	: No data available
Viscosity Viscosity, kinematic	: 0.717 - 0.864 mm <sup>2</sup> /s @ 20 °C (68 °F)

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.



## Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Exposure to sunlight. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Strong oxidizing agents Strong acids Nitrogen oxides (NOx) Alkalis Plastics Reducing agents
Hazardous decomposition products	: Carbon oxides Hydrocarbons Aldehydes

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute inhalation toxicity	: Acute toxicity estimate: 6768 ppm Exposure time: 4 h Test atmosphere: gas
Acute dermal toxicity	: Acute toxicity estimate: 1,717 mg/kg

##### Components:

###### **1330-20-7:**

Acute inhalation toxicity	: LC50 (Rat, male): 6700 ppm Exposure time: 4 h Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rabbit): 1,700 mg/kg Assessment: The component/mixture is moderately toxic after single contact with skin.

#### Skin corrosion/irritation

##### Components:

###### **1330-20-7:**

Species: Rabbit  
Exposure time: 24 h  
Result: Irritating to skin.





# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

### Serious eye damage/eye irritation

#### Components:

1330-20-7:

Species: Rabbit

Result: Irritating to eyes.

### Carcinogenicity

#### Product:

Carcinogenicity - Assessment : Suspected human carcinogens

#### IARC

Group 2B: Possibly carcinogenic to humans

100-41-4

\*\*Ethylbenzene

98-82-8

\*\*Cumene

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### ACGIH

Confirmed animal carcinogen with unknown relevance to humans

100-41-4

\*\*Ethylbenzene

### Reproductive toxicity

#### Product:

Reproductive toxicity - Assessment

Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

### STOT - single exposure

#### Product:

Target Organs: Respiratory system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

### STOT - repeated exposure

#### Product:



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

Target Organs: Auditory system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Aspiration toxicity

**Product:**

May be fatal if swallowed and enters airways.

### Further information

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

**Components:**

**98-82-8:**

Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

### Mobility in soil

No data available

### Other adverse effects

**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

#### DOT (Department of Transportation):

UN1307, XYLENES, 3, III

#### IATA (International Air Transport Association):

UN1307, XYLENES, 3, III

#### IMDG (International Maritime Dangerous Goods):

UN1307, XYLENES, 3, III, Flash Point:27 °C(81 °F)

### SECTION 15. REGULATORY INFORMATION

- WHMIS Classification** : B2: Flammable liquid  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Mixed xylenes	1330-20-7	100	101
**Ethylbenzene	100-41-4	1000	2857

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Fire Hazard  
Immediate (Acute) Health Hazard  
Chronic (Delayed) Health Hazard

#### Clean Air Act



# Safety Data Sheet

## Startex Xylene

Version 2.1

Revision Date: 02/20/2017

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

100-41-4      \*\*Ethylbenzene

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7      Mixed xylenes

100-41-4      \*\*Ethylbenzene

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7      Mixed xylenes

100-41-4      \*\*Ethylbenzene

108-88-3      \*\*Toluene

71-43-2      \*\*Benzene

91-20-3      \*\*Naphthalene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7      Mixed xylenes

100-41-4      \*\*Ethylbenzene

108-88-3      \*\*Toluene

71-43-2      \*\*Benzene

91-20-3      \*\*Naphthalene

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

100-41-4      \*\*Ethylbenzene

### US State Regulations

#### Massachusetts Right To Know

1330-20-7      Mixed xylenes      90 - 100 %

100-41-4      \*\*Ethylbenzene      30 - 50 %

71-43-2      \*\*Benzene      0 - 0.1 %

#### Pennsylvania Right To Know

1330-20-7      Mixed xylenes      90 - 100 %

100-41-4      \*\*Ethylbenzene      30 - 50 %

98-82-8      \*\*Cumene      0.1 - 1 %

108-88-3      \*\*Toluene      0.1 - 1 %

71-43-2      \*\*Benzene      0 - 0.1 %

#### New Jersey Right To Know

1330-20-7      Mixed xylenes      90 - 100 %

100-41-4      \*\*Ethylbenzene      30 - 50 %

108-88-3      \*\*Toluene      0.1 - 1 %

#### California Prop 65

100-41-4      \*\*Ethylbenzene      WARNING! This product contains a chemical known to the State of California to cause cancer.

98-82-8      \*\*Cumene

71-43-2      \*\*Benzene

91-20-3      \*\*Naphthalene

108-88-3      \*\*Toluene      WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.



# Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

71-43-2

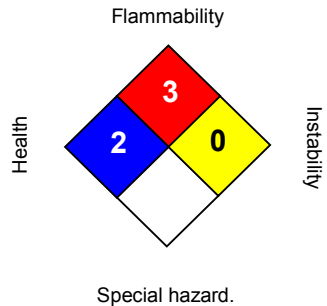
\*\*Benzene

### The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### NFPA:



### HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

Revision Date : 02/20/2017

### Material number:

16066713, 16066712, 16066711, 16066679, 16066678, 16066677, 16061582, 16056824, 16056823, 16056822, 16056821, 16056820



## Safety Data Sheet Startex Xylene

Version 2.1

Revision Date: 02/20/2017

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%